# MXB-U UNGUIDED BELT-DRIVE ACTUATOR

## ENDURANCE TECHNOLOGY

Endurance Technology<sup>SM</sup> features are designed for maximum durability to provide extended service life.

A Tolomatic Design Principle

The MXB-U rodless actuator is a pre-assembled compact linear belt solution for use in applications with existing guides & supports. This economical actuator features speeds up to 5080 mm/sec (200 in/sec) and thrusts up to 1859 N (418 lbf). Built-to-order in stroke lengths up to 5842 mm (200 in).

## **MOTOR ORIENTATION**

#### YOU CAN CHOOSE:

- Direct drive option directly couples motor to the drive shaft; one-piece housing construction for optimum alignment and support of the motor
- Reduction option in 3:1 reduction (2:1 on MXB16)

## DURABLE BELT MATERIAL

High power polyurethane HTD tooth profile belt with steel tensile members resists stretching

## YOUR MOTOR HERE

### YOU CAN CHOOSE:

- Specify the device to be installed and actuator ships with proper mounting hardware
- Specify and ship your device to Tolomatic for factory installation
- Motor supplied and installed by Tolomatic

## LIGHTWEIGHT ALUMINUM **DESIGN**

Clear anodized extrusion design is optimized for rigidity and strength

#### **EXTERNAL BUMPERS INCH OR METRIC**

EXCELLENCE IN MOTION

Your choice of blank, inch (US standard) or metric mounting to the plate

MOUNTING

LOW

PLATE

HEIGHT

Reduces

overall

actuator

envelope

## BELT TENSIONING SYSTEM

The open slot on the guide plate permits easy access to the belt tensioning screw. No disassembly required

> NOTE: Boxed letters \_\_\_\_ indicate ordering codes

## OPTIONS

omatic...MAXIMUM DURABILITY

Polyurethane bumpers protect the belt and

clamp assembly from damage at end-of-stroke

## MOUNTING PLATES MP Provides clearance for motor and mount

16,25,32 sizes attach with T-Nuts 40,50,63 sizes attach with Tube Clamps



## HEAD COVER PLATE HC2

Provides protection for pulley and bearing



## TUBE CLAMPS TC

- Used for intermediate support
- Flush with bottom of actuator to retain low profile
- Drop-in, adjustable mounting locations (Not available on the MXB16U))



## **SWITCHES**

- Wide variety of sensing choices: Reed, Solid State PNP or NPN, available normally open or normally closed
- Flush mount, drop-in installation
- Bright LEDs, power & signal indication
- CE rated, RoHS compliant

## **OVERSIZED PULLEY BEARINGS**

Drive shaft assembly incorporates oversized shielded/sealed ball bearings for long life and high speeds

## STEEL REINFORCED/HTD BELT PROFILE

- Belt of polyurethane material reinforced with steel tension members to produce high carrier thrusts without belt stretch.
- HTD tooth profile distributes tooth load more evenly and provides greater tooth shear strength, allowing for higher thrust loading.
- The deep teeth of the HTD profile are cogging-resistant, preventing potentially damaging positioning errors.

